

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) ~~An handheld electronic device~~electronic pen which is adapted to carry out at least one operation, the electronic pen comprising:

a registration device for registering strokes when the ~~device~~electronic pen is moved;
interpretation means for determining if the strokes comprise a command; and
processor means for carrying out an operation upon determination of said command,
wherein the registration device is adapted to record the command electronically by detecting a position code arranged on a writing surface, upon which the command is written.

2. (Canceled).

3. (Currently Amended) ~~A~~The device electronic pen according to claim 1, wherein said registration device comprises an optical sensor, which is adapted to record images of the writing surface, and a signal processor, which is adapted to use the position code in the images for providing a digital representation of the command.

4. (Currently Amended) ~~A~~The deviceelectronic pen according to claim 3, wherein the signal processor comprises a character interpretation function which is adapted to translate the digital representation of the command into character-coded format.

5. (Currently Amended) ~~A~~The device electronic pen according to claim 1, wherein, furthermore, the registration device is adapted to record a message information quantity, which is used in the operation, in essentially the same way as the command is recorded.

6. (Currently Amended) ~~A~~The deviceelectronic pen according to claim 5, wherein the registration device is adapted to record the information quantity by detecting the position code on a writing surface.

7. (Currently Amended) ~~A~~The ~~device~~electronic pen according to claim 5, wherein the ~~device~~electronic pen has at least two modes, one being a command mode for recording the command and the other being an information mode for recording the message information quantity.

8. (Currently Amended) ~~A~~The ~~device~~ electronic pen according to claim 7, wherein the ~~device~~electronic pen is adapted to assume the command mode when the user writes said predetermined command using the ~~device~~electronic pen.

9. (Currently Amended) ~~A~~The ~~device~~electronic pen according to claim 7, wherein the ~~device~~electronic pen is adapted to assume the command mode when the ~~device~~electronic pen detects that the writing surface has a predetermined design.

10.-15. (Cancelled).

16. (Currently Amended) A software program, which is stored on a memory medium, which can be read by a computer and which comprises instructions for causing the computer to register strokes when an electronic pen is moved based on received position data obtained from a position coding pattern, determine if the strokes comprise a command, detect a command, by electronically detecting a position code, written by means of a handheld electronic device, which is used as a pen, and to initiate a predetermined operation in the electronic pen in response to the determined command.

17. (Currently Amended) A method for initiating an operation in a ~~handheld electronic device~~an electronic pen, comprising:

using the ~~device as a pen~~electronic pen to write on a surface that includes a position code;
and

writing a command symbol on the surface to perform an operation on a surface that includes a position code to perform an operation in the electronic pen.

18. (Currently Amended) A method for controlling ~~a handheld electronic device~~an electronic pen, the ~~device~~electronic pen being adapted to carry out at least one operation, comprising:

registering strokes when the ~~device~~electronic pen is moved;
determining if the strokes comprise a command; and
carrying out an operation upon determination of the command, wherein the registering strokes includes recording the command electronically by detecting a position code arranged on a writing surface, upon which the command is written.

19. (Cancelled).

20. (Previously Presented) A method according to claim 18, wherein registering strokes is performed using an optical sensor which records images of the writing surface, and wherein determining if the strokes comprise a command further includes processing, using the position code in the images, for providing a digital representation of the command.

21. (Previously Presented) A method according to claim 20, further comprising:
translating the digital representation of the command into character-coded format.

22. (Previously Presented) A method according to claim 18, further comprising:
registering a message information quantity.

23. (Previously Presented) A method according to claim 22, further comprising:
registering the message information quantity by detecting a position code on a writing surface.

24. (Currently Amended) A method according to claim 23, wherein the ~~device~~electronic pen is adapted to assume the command mode when the user writes said predetermined command using the ~~device~~electronic pen.

25. (Currently Amended) ~~A handheld electronic device~~An electronic pen which is adapted to carry out at least one operation, the electronic pen comprising:
a registration device for registering strokes when the ~~device~~electronic pen is moved;
an interpreter for determining if the strokes comprise a command; and
a processor for carrying out an operation upon determination of said command, wherein the registration device is adapted to record the command electronically by detecting a position code arranged on a writing surface, upon which the command is written.

26. (Currently Amended) ~~A handheld electronic device~~An electronic pen which is adapted to initiate at least one operation, the electronic pen comprising:
a recording device for recording the movement pattern of the ~~device~~electronic pen over a writing surface when the ~~device~~electronic pen is used for writing on the writing surface, said recording device being adapted to record the movement pattern of the ~~device~~electronic pen electronically by detecting a position code on the writing surface,
an interpretation module for detecting and interpreting a command formed and defined by at least a part of the recorded movement pattern, and
a processor for initiating an operation corresponding to the command.

27. (Currently Amended) The ~~handheld electronic device~~electronic pen of claim 1, wherein the interpretation means comprises character recognition means for translating the command to character-coded format.

28. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 1, wherein the position code codes each position by a plurality of marks and adjoining positions being partly coded by means of the same marks, and wherein the electronic pen ~~device~~ further comprises decoding means for decoding said position code.

29. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 1, wherein the interpretation means are arranged to interpret the strokes as a command when the strokes are written on a part of the position code which codes predetermined positions.

30. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 1, wherein the command is a command to carry out an operation from the group of operations including dialing a telephone number, faxing, sending an electronic message, saving information, managing a document, managing a file, starting a program, controlling a program and closing a program.

31. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 1, wherein the command is written by alphanumerical characters.

32. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 26, wherein the interpretation means comprises character recognition means for translating the command to character-coded format.

33. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 26, wherein the position code codes each position by a plurality of marks and adjoining positions being partly coded by means of the same marks, and wherein the electronic pen ~~device~~ further comprises decoding means for decoding said position code.

34. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 26, wherein the interpretation means are arranged to interpret the strokes as a command when the strokes are written on a part of the position code which codes predetermined positions.

35. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 26, wherein the command is a command to carry out an operation from the group of operations including dialing a telephone number, faxing, sending an electronic message, saving information,

managing a document, managing a file, starting a program, controlling a program and closing a program.

36. (Currently Amended) The electronic pen ~~handheld electronic device~~ of claim 26, wherein the command is written by alphanumerical characters.

37. (Currently Amended) The electronic pen ~~handheld electronic device~~ according to claim 26, wherein said registration device comprises an optical sensor, which is adapted to record images of the writing surface, and a signal processor, which is adapted to use the position code in the images for providing a digital representation of the command.

38. (Currently Amended) The electronic pen ~~handheld electronic device~~ according to claim 26, wherein the registration device is adapted to record a message information quantity, which is used in the operation, in essentially the same way as the command is recorded.

39. (Currently Amended) The electronic pen ~~handheld electronic device~~ according to claim 38, wherein the registration device is adapted to record the information quantity by detecting the position code on a writing surface.

40. (Currently Amended) The electronic pen ~~handheld electronic device~~ according to claim 38, wherein the electronic pen device has at least two modes, one being a command mode for recording the command and the other being an information mode for recording the message information quantity.

41. (Currently Amended) The electronic pen ~~handheld electronic device~~ according to claim 1, wherein the position code encodes position by directions of displacements of dots from raster points.